

CLAIMS:

B 1 1. A method of transmitting over a wireless link, said method  
2 comprising:  
3 adjusting the transmit power of a wireless transmitter in relation to a number  
4 N of expected ACKs for radio transmissions over said wireless link.

5 2. The method of claim 1 wherein said adjusting being performed by said  
6 wireless transmitter and further including:  
7 monitoring the number of ACKs lost for radio packets transmitted;  
8 increasing said transmit power if the number of ACKs lost / expected number  
9 of ACKs is above a first threshold; and  
10 decreasing said transmit power if the number of ACKs lost / expected number  
11 of ACKs is below a second threshold.

B 1 3. The method of claim 1 further including:  
2 determining an initial transmit power for said wireless transmitter based on a  
3 measurement of a signal received over said wireless link.

4 4. The method of claim 2 further including:  
5 providing a base station transmitting acknowledgments of radio packets  
6 transmitted by said wireless transmitter over said wireless link to said base station.

7 5. The method of claim 2 further including:  
8 providing a wireless unit transmitting acknowledgments of radio packets  
9 transmitted by said wireless transmitter over said wireless link to said wireless unit.

10 6. The method of claim 1 further including:  
11 providing a register of length N;  
12 filling said register with receive ACK bits

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4 transmitting a radio packet;  
5 inserting into said register a receive ACK bit if an ACK was received within a  
6 time interval; and  
7 inserting into said register a no ACK bit if an ACK was not received within  
8 said time interval.

1 7. The method of claim 6 wherein said step of adjusting including:  
2 reducing said transmit power if the number of no ACK bits/N is less than a  
3 first threshold; and  
4 increasing said transmit power if the number of no ACK bits/N is greater than  
5 a second threshold.

669050-18090260